Mild Steel Plain Plates - Grade 250 (Plus Coils).



Specification - AS/NZS 3678:2011-250.

Coil Plate Details.

Thickness	Mass/m ²	Kg per Linear metre of Plate Width.					Colour
mm	kg/m²	1200	1500	1800	2400	3000	Coding
3	23.55	28.26	35.33	42.39	56.50	-	Blue
4	31.40	37.68	47.10	56.52	75.40	-	Green
5	39.25	47.10	58.87	70.65	94.20	117.75	Orange
6	47.10	56.52	70.65	84.78	113.04	141.30	White
8	62.80	75.36	94.20	113.04	150.72	188.40	Red
10	78.50	94.20	117.75	141.30	188.40	235.50	Yellow
12	94.20	113.04	141.30	169.56	226.08	282.60	Pink
16	125.60	150.72	188.40	226.08	301.44	376.80	Grey
20	157.00	188.40	235.50	282.60	376.80	471.00	Green
25	196.25	235.50	294.38	353.25	471.00	588.75	Purple
28	219.80	264.00	330.00	396.00	527.52	-	Blue
32	251.20	301.00	377.00	452.16	602.88	-	Orange
36	282.60	339.00	424.00	509.00	678.24	-	Red
40	314.00	377.00	471.00	565.20	753.60	-	Yellow
45	353.25	424.00	530.00	636.00	847.80	-	Grey
50	392.50	471.00	589.00	706.50	942.00	-	Green
55	431.75	518.00	648.00	777.00	1036.20	-	ites
60	471.00	565.00	707.00	847.80	1130.40	-	e pla
65	510.00	612.00	765.00	918.00	1224.00		thes
70	549.50	659.00	824.00	989.10	1318.80	-	e of
80	628.00	754.00	942.00	1130.40	1507.20	-	edg
90	706.50	848.00	1060.00	1272.00	1695.60	-	the
100	785.00	942.00	1178.00	1413.00	1884.00	-	glong
110	863.50	-	-	1554.30	2072.40	-	ten a
120	942.00	-	-	1695.60	2260.80	-	writ
130	1021.00	-	-	1837.80	2450.40	-	Size may be written along the edge of these plates
140	1099.00	-	-	1978.20	2637.60	-	e ma
150	1177.50	-	-	2119.50	2826.00	-	Siz

Thickness	910mm -	1765mm-
mm	1550mm	1800mm
3	V	√
4	$\sqrt{}$	$\sqrt{}$
5		$\sqrt{}$
6	$\sqrt{}$	$\sqrt{}$
8		$\sqrt{}$
10	√	\checkmark
12	√	√

The advantages of coil plate and/or floor plate is that repetitive lengths may be cut to minimize any wastage
Coils may weigh as much as 14 tonne and must be cut to length in their entirety.
There are specialty sites that uncoil, cut to length and stack for transportation



To calculate the weight of plate, multiply the plate thickness by 7.850 = kg/m²

Requests for Test Certificates <u>must</u> be placed with original order or a search surcharge may apply.

Mild Steel Floor Plates - Grade 250. (Coil Details)



Floor Plate (Checker Plate/Tread Plate) - AS/NZS 3678 - 2011.

Floor Plate Coil Details.

Thickness	Mass/m ²	Kg per Linear metre of Plate Width	Standard plate sizes.	Colour
mm	kg/m ²	1800 mm (Lozenge height = 1.5mm.)	otanuaru piate sizes.	Coding
6	49.10	88.38	6.0m x 1800mm	White
8	64.80	116.64	6.0m x 1800mm	Red
10	80.50	144.90	6.0m x 1800mm	Yellow
12	96.20	173.16	6.0m x 1800mm	Pink

Thickness	1200	1500	1800		
mm	wide - mm.				
2.1*	1	-	-		
3.0	√	-	-		
5.0	√	√	-		
6.0	√	√	√		
8.0	_	V	_		

The raised nodules on Floor/Tread plate adds another 2 kg/m² to the weight.

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Mild Steel Plain Plates - Grade 350.

Plain Plate - AS/NZS 3678-350

Thickness	Mass/m ²	Kilograms per Linear metre of Plate Width.		Available F	Plate lengths.	
mm	kg/m²	2400	3000	3100	2400	3000
5	39.25	94.20	117.75	-	6.0m & 9.0m,	9.0m
6	47.10	113.04	-	-	9.6m	-
8	62.80	150.72	-	-	9.6m	-
10	78.50	188.40	-	243.35	9.6m	9.6m x 3.10m
12	94.20	226.08	-	292.02	9.6m	9.6m x 3.10m
16	125.60	301.44	-	389.36	9.6m	9.6m x 3.10m
20	157.00	376.80	-	486.70	9.6m	9.6m x 3.10m
25	196.25	471.00	-	-	9.6m	-
32	251.20	602.88	-	-	9.6m	-
40	314.00	753.60	-	-	7.6m	-
50	392.50	942.00	-	-	7.6m	-
60	471.00	1130.40	-	-	7.6m	-
70	549.50	1318.80	-	-	6.0m	-
80	628.00	1507.20	-	-	5.5m	-



Pressure Vessel Plates.

Pressure Vessel Plate - SA/AS 1548-7-460R

Thickness	Mass/m ²	Kilograms per Linear metre of Plate Width.			Plate lengt	ths available
mm	kg/m ²	2400	3000	3100	2400	3100
5	39.25	94.20	-	-	9.0m	-



Boiler Plates - (To be "Crown" stamped).

Boiler Plate - SA/AS 1548-7-460R

Thickness	Mass/m ²	Kilograms per Linear metre of Plate Width.		Plate leng	ths available	
mm	kg/m²	2400	3000	3100	2400	3100
6	47.10	-	-	n/a	-	9.6m
8	62.80	-	-	194.68	-	9.6m
10	78.50	-	-	243.35	-	9.6m
12	94.20	-	-	292.02	-	9.6m
16	125.60	-	-	389.36	-	9.6m
20	157.00	-	-	486.70	-	9.6m
25	196.25	-	-	608.38	-	9.6m
32	251.20	-	-	778.72	-	9.6m
40	314.00	753.60	-	-	9.6m	-
50	392.50	942.00	-	-	9.6m	-
60	471.00	1130.40	-	-	6.0m	-
70	549.50	1318.80	-	-	6.0m	-
80	628.00	1507.20	-	-	5.2m	-
90	706.50	1695.60	-	-	5.2m	-
100	785.00	1884.00	-	-	5.2m	-







Quenched & Tempered Plates - (Hardox).



Quenched & Tempered Plates.



MACHINING.

Hardox® wear plate is easy to machine.
Drilling, countersinking, tapping and milling is performed with high-speed steel tools.



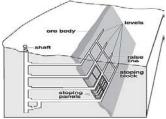
CUTTING.

Hardox® wear plate is suitable for both hot and cold cutting. Recommended hot methods are oxy-fuel, plasma cutting and laser cutting. For optimal laser-cutting performance you can order Hardox® unpainted and with an enhanced surface finish. When heating is not desired, Hardox® wear plate can be cut cold by water jet shearing, sawing or grinding.



WEI DING.

Hardox® wear plate has great weldability to any type of weldable steel. Flatness and narrow thickness tolerances make automatic welding easy and shorten the time for fit-up and tacking.



UNDERGROUND MINING.

Hardox® wear plate is a reliable and flexible solution for underground mining operations. Its outstanding weldability and workshop-friendly properties make it easy to perform on-site repairs, often inside the mine without having to bring the equipment to the surface. This keeps production up and maintenance costs down.

Front loaders	Dump trucks
Buffer bins	Transfer chute
Feeder	Screener
Crusher	Skip

ROAD BUILDING.

Road building needs a variety of equipment, from trucks that transport heavy material long distances to machines that withstand extreme wear when breaking ground. The unique properties of Hardox® wear plate takes you beyond conventional design thinking. For example, its superior strength allows for thinner steel that lowers overall weight and enables increased payloads.

All details courtesy of SSAB



BENDING.

The uniform properties, close thickness tolerances and smooth surfaces make Hardox® wear plates well suited to free bending and roll-forming.



RECYCLING.

Recycling processes, such as the fragmentizing of waste, places enormous demands on equipment. In order to stay productive and competitive it is vital to use materials that withstand the abuse. Hardox® wear plate is the solution. Developed specifically for tough demands, Hardox® wear plate allows recyclers and recycling equipment manufacturers to cut costs, improve service life, and optimize production.

Garbage truck	Linei piates
Hammer mills	Shredders

Excavator bucket
Crusher
Bulldozer
Rollers
Cement mixers
Bucket
Tipper
Grader
Grader
Asphalt milling
Dump trucks

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Hardox® wear plate - The Beast.

HARDOX® PLATE AND SHEET

Hardox® grade	Hardness nominal HBW	Impact toughness CVL typical for 20 mm (¾") J at-40°C (ft-lb at -40°F)	Relative service life interval ¹	CEV/CET typical for 20 mm (¾") ²	Thickness range mm (inches)
			-	-	
Hardox® HiTuf	350	95 (70)	-	0.55/0.363	40-160 (1.57-6.3)
Hardox® 400	400	45 (33)	1	0.44/0.28	2-130 (0.079 -5.12) ⁴
Hardox® 450	450	50 (37)	1.1-1.7	0.56/0.38	2.5-130 (0.098-5.12) ⁴
naruox® 450	450	30 (31)	1.1-1.1	0.39/ 0.31	0.7-2.1 (0.028-0.083) ⁵
Hardox® 500	500	37 (27)	1.3-2.1	0.63/0.41	3-103 (0.118-4.06)
Hardox® 500 Tuf	475-505	45 (33)	1.3-2.1	0.52/0.36	4-25 (0.079-0.985)
Hardox® 550	550	30 (22)	1.5-4.0	0.72/0.48	8-65 (0.315-2.56)
Hardox® 600	600	20 (15)	1.8-8.0	0.76/0.58	6-65, metric only
Hardox® Extreme	650-700	15 (< 11)	2.0-18.0	0.65/0.54	8-19, metric only
Hardox® HiTemp	350-400	60 (44)	-	0.59/0.40	5-51 (0.197-2)

All plates are produced according to Hardox® wear plate guarantees or better.

3. 70 mm (2.76")

1. Max/min sliding wear by SSAB WearCalc (mild steel 0.2-0,8)

4. Up to 160 mm (6.30") available upon request

 $2.\;CEV = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15; CET = C + (Mn + Mo)10 + (Cr + Cu)/20 + Ni/40 \\ \;\; 5.\;Hardox \& \; 450\;CR$

HARDOX® TUBE

Hardox® grade	Hardness nominal HBW	Yield strength typical MPa (Ksi)	Diameter external mm (inches)	Wall thickness mm (inches)
Hardox® 400	400	1000-1300 (145-188)	76.1-219.1 (3-8 5/8)	3.0-6.0 (0.118-0.236)
Hardox® 500	500	1200 (> 174)	76.1-133 (3-5.24)	2.0-6.0 (0.079-0.236)



HARDOX® ROUND BAR

Hardox® grade	Hardness nominal HBW	Impact toughness CVL typical for 20 mm (¾") J at -40°C (Ft-lb at -40°F)	CEV/CET typical for 20 mm (¾")	Bar diameter mm (inches)
Hardox® 400 Bar	400	45 (33)	0.58/0.37	40-70 (1.57-2 ³ / ₄)



HIGH VERSATILITY

The variety of dimensions makes Hardox® wear plate suitable for a wide range of designs and products. The outstanding qualities of the flat Hardox® wear plate gr are also available in the form of tubes and round bars. The tubes extend service life when pumping abrasive materials such as wet concrete, soil, gravel and ore slu Round bars are the hard-wearing choice in sieve buckets, for example.

All Hardox® products are clearly marked. A unique identification number is stamped on the plates and sheets for traceability. Other data such as dimensions, serial number and heat number are printed before delivery.

Knowing your product's unique identity makes workshop processing and quality control so much easier. The identifying marks also come in handy when storing smi pieces of Hardox® steel for later use.



Agricultural STEEL



Hardox® Wear Plates - Steel Grades.



HARDOX® WEAR PLATE FOR EXTREME ABRASION RESISTANCE

Properties	Specification	450	500	500 Tuf	550	600	Hardox® Extreme
Yield Strength [MPa] (Typical)	1250						
Toughness *	50 J/ -40 o C						
Hardness [HBW]	450	390-475					
Thickness Range (mm)	0.7-130						
Yield Strength [MPa] (Typical)	1400						
Toughness *	37 J/ -40 o C						
Hardness [HBW]	500		470-540				
Thickness Range (mm)	2-103						
Yield Strength [MPa] (Typical)	1250-1400						
Toughness *	27 J/ -20 o C						
Hardness [HBW]	500			475 - 505			
Thickness Range (mm)	4.0 - 25.4						
Yield Strength [MPa] (Typical)							
Toughness *	30 J/ -40 o C						
Hardness [HBW]	550				525-575		
Thickness Range (mm)	8-65						
Yield Strength [MPa] (Typical)							
Toughness *							
Hardness [HBW]	600					550-640	
Thickness Range (mm)	6-65						
	60 HRC						57-63 HRC
	8-19						
Applications		abrasion-resistant, combines good bendability and weldability with guaranteed impact toughness	Suitable for applications that demand higher wear resistance	high strength, extreme hardness and guaranteed toughness in one and the same wear plate.	close to Hardox® 500, increases wear life but not at the expense of crack integrity.	extreme wear conditions, can 3 cut and welded, an excellent 5 choice for high-performance applications	nominal hardness of 60 HRC, applications with extreme high demands on abrasion resistance like liner plates, etc.
Dimension Ran	ge	Hardox® 450 is available in thicknesses of 3.2 - 130 mm (1/8 - 5.12") as plate, as sheet in thicknesses 2.0 - 8.0 mm (0.079 - 0.315") and as CR sheet in thicknesses 0.7 - 2.1 mm (0.028 - 0.083"). For thicknesses over 80 mm (3.15") the preferred width is 1650 mm (64.96").	Trandoxe 300 pages is available in triuchtesses of 4.0 – 1.00 min. (5/32 - 4.06°), and Handoxe 500 sheet in thicknesses of 2.0 - 6.5 mm (0.079 - 0.256°). Handoxe 500 plate is available in widths up to 3350 mm (131.89°) and lengths up to 14630 mm (675.98°). Handoxe 500 sheet is available in widths up to 1650 mm (64.96°). and lanouths un to 16700 mm (62.90°).	Hardox® 500 Tuf is available in thicknesses of 4.0 – 25.4 mm. Hardox® 500 Tuf is available in widths up to 3350 mm and lengths up to 14630 mm.	Hardox® 550 is supplied in plate thickness of 8.0 – 65 mm, up to 2900 mm in width and up to 14630 mm in length.	Hardox® 600 is available in thicknesses of 6 – 65 mm. Hardox® 600 is available in widths up to 2000 mm and lengths up to 14630 mm. Preferred dimensions are 2000 x 4000 mm, other dimensons on request.	Hardox® Extreme is supplied in plate thickness of 8 – 19 mm, up to 2000 mm in width and up to 14630 mm in length, preferred widths are 2000 x 4000 mm, other width on request.

Details compliments of SSAB





Hardox® Wear Plates - Steel Grades.

HARDOX® WEAR PLATE FOR EXTREME ABRASION RESISTANCE

		Hardox Wear Plates (Typical)						
Properties	Specification	Hardox® Round bars	Hardox® Tube 400	Hardox® Tube 500	Hardox® HiTemp	Hardox® HiTuf		
Yield Strength [MPa] (Typical)	1000-1100							
Toughness *	45 J/ -40 o C							
Hardness [HBW]	400	370 - 430						
Thickness Range (mm)	40-100							
Yield Strength [MPa] (Typical)								
Toughness *								
Hardness [HBW]	400		360-440					
Diameter Range (mm)	30-133							
Thickness Range (mm)	3-6							
Yield Strength [MPa] (Typical)								
Toughness *								
Hardness [HBW]	500			470-530				
Diameter Range (mm)	30-133							
Thickness Range (mm)	3-6							
Yield Strength [MPa] (Typical)	1100							
Toughness *	60 J/ -40 o C							
Hardness [HBW]	400				375-425			
Thickness Range (mm)	4.7-51							
Yield Strength [MPa] (Typical)	850							
Toughness *	40 J/ -40 o C							
Hardness [HBW]	350					310-370		
Thickness Range (mm)	40-160							
Applications		versatile, ready-to-use, abrasion- resistant that combine high toughness, good bendability and weldability.	outslanding performance when you need both high wear resistance and a lighter product.	hard and bugh, outstanding performance for both high wear resistance and lighter products	wear plate that provides a solution for wear resistance at high temperatures in the 300–500°C range	structural wear parts like thick cutting edges, demolition tools and rippers		
Dimension Rar	ge	n diameters of 40 to 100 mm. ends upon product diameter.		30 - 133 mm Circulor 2.5 - 5.0 mm 1000 - 10 000 mm (+ 50 mm). 470 - 530 HBW According to EN 10219. EET 0.41	thicknesses of 47 – 51.0 mm. in widths up to 3350 mm and 14630 mm.	thicknesses of 40 – 160 mm. thts up to 3350 mm and lengths over 125 mm preferred width is nm.		
		Hardox® 400 Bar is available in diameters of 40 to 100 mm. Maximum available length depends upon product diameter.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Diameter Cross section Wall Priciness Length Hardness Min-Max ⁽¹⁾ Dimersion tolerances and testing Maximum carbon equivalent	Hardox® HiTemp is available in thicknesses of 4.7 – 51.0 mm. Hardox® HiTemp is available in widths up to 3350 mm and lengths up to 14630 mm.	Hardox® HTuf is available in thicknesses of 40 – 160 mm. Hardox® HTuf is available in widths up to 3350 mm and lengths up to 14630 mm. For thicknesses over 125 mm preferred width is 1650 mm.		

Details compliments of SSAB







Service Options - Processing.



When you need steel plate processed, we offer profile cut Laser/Plasma, bevelling, drilling, counter sinking, tapping, pressing and bending.



Flame Profile Cutting

Plasma Profile Cutting

Bevelling Plate Edges





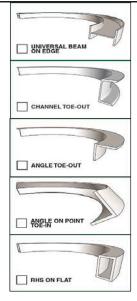


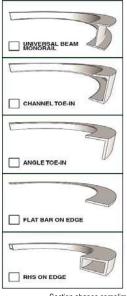
Steel Plate Drilling.

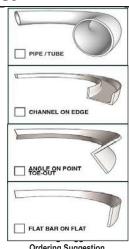
Countersinking Drilled Holes

Tapping Drilled Holes

Section Rolling Options.







Ordering Suggestion.

To assist us in supplying you the correct rolled sections please tick the appropriate shape above, photocopy this page and forward the suggestion with your order.

Section shapes compliments of



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Steel Plates - Structural Steel. International Standard Comparisons.

} ₩	6773						MPa
		Struct	tural Plate - Int	ernational Stand	ards.		
Australian AS 3678	European * EN10025	British * BS 4360	German * DIN17100	Japanese JIS	American ASTM	International ISO 630	Tensile Strength MPa
			St33				290
200							300
					A283A	Fe310-0	310
				G3101-SS330			330
	S235JR	40A, B, C, D	St37-2 St37-3		A283B	Fe360A, B, C, D	360
					A283C		380
				G3101-SS400 G316-SM400 A, B, C	A36, A573-400		400
250 250L15	\$275JR \$275JO \$275J2G3 \$275J2G4			St44-2 St44-3	A283D A284C, D A529 A572-290		410
300 300L15	Fe430B, C,D1, D2	43A, B, C, D			A633A	Fe430A, B, C, D	430
350 350L15					A573-450 A572-345		450
400, 400L15	S355JR S355JD S355J2G3				A573-485		480
		50A, B, C, D	S152-3	G3101-SS490 G3106-SM490 A, B, C G3106-SM490 YA, YB		Fe510 B, C, D	490
450 450L15				G3106-SM520 B, C	A572-415	Fe510 B, C, D	520
				G3101-SS540			540

- 1. This table indicates the approximate relationship between Australian grades and their International counterparts.
- Grades are shown in their increasing tensile strength order. In the case of American ASTM Standards some grades are shown in increasing yield strength (YS) order, as their position in the hierarchy is different when based on the yield strength compared to tensile strength (TS).
- * $\,$ En10025 has replaced BS4360 and DIN17100 Standards.
- 3. For grades with suffix letters C, D on British, European and International Standards, B, C, on Japanese Standards and suffix numbers 2 and 3 on German Standards, the appropriate Australian alternative is the nearest L15 grade of the equivalent strength level (i.e. High or Medium).
- 4. Grades readily available are highlighted in black.
- 5. The grade/s within the same shaded band show generally acceptable alternatives, provided relevant design factors are considered.
- 6. This graph is designed for customers to determine the nearest available Australian grade to an international specification.



Steel Plates - Boiler Plates.



International Standard Comparisons.

MPa	#€	£****}					
	₹ *	Во	iler Plate - Inter	national Stand	ards.		
Tensile	Australian	European *	British *	German *	Japanese	American	Internationa
Strength	AS 3678	EN10025	BS 4360	DIN17100	JIS	ASTM	ISO 630
(MPa)							
310						A285-A	
340						A285-B	
		2-P235GH	151-360	H1			P235
360			161-360				
			164-360				
						A285-C	
380						A442-55	
						A515-55	
						A516-55	
390		3-P275N#					
			151-400	H11	G3103-SB410	A682-A	P265
400			161-400		G3115-SPV235		
400			164-400		G3118-SGV410		
			224-400		G3126-SLA235		
410		2P265GH			G3118-SGV410		P265
415						A515-65	
						A518-60#	
430	7-430						
440					G3126-SLA325		
450					G3118-SB450	A515-65	
					G3118-SGC450	A516-65	
460	7-460	2-P295GH#				A662-B*	P290
480					G3103-SB480		
					G3118-SGV480		
	7-490		224-490	19Mn6	G3115-SPV315	A515-70	P315
490						A516-70#	
						A841.	
	5-490	3-P355GH#			G3126-SLA360	A537-C11	P315
490						A737-B	
						A841	
510		2-P355GH#					P355
					G3115-SPV355	A299	
520						A455	
						A738-A	

- 1. This table indicates the approximate relationship between Australian grades and their International counterparts
- Grades are shown in their increasing tensile strength order. AS1548-5-490 & equivalent grades have a higher minimum yield strength requirement than the corresponding AS1548-7-490 & equivalent grades.
- 3. Grade equivalence shown is based on room temperature tensile properties only.
- 4. Grades readily available are highlighted in black.
- It may be possible to substitute readily available grades for international grades outside the designated band shown, provided relevant design factors are considered.
- 6. # These overseas grades may be available subject to enquiry.



Hot Rolled Steel Sheet.

Specification - Hot Rolled Sheet - AS/NZS1594 - 2002.

Sheet		Available Widths.							kg per	Colour		
Thickness	895	900	910	1195	1200	1210	1495	1500	1510	1800	m²	Coding
1.50					✓	✓					11.77	Purple
1.60			✓	✓	✓	✓					12.56	Purple
1.95		✓		✓	✓	✓					15.3	Yellow
2.40					✓						18.84	Pink
2.50				✓		✓	✓		✓		19.63	Pink
2.90						✓		✓			22.77	Blue
2.95					✓			✓		✓	23.16	Blue
3.00	✓			✓		✓	✓		✓	✓	23.55	Blue

Meets both:- AS/NZS 1594: 2002 and AS/NZS 1365: 1996

Skin-passed, Hot-rolled low carbon steel suitable for forming, bending and welding operations.

Some Uses include:- Tanks, Shelving and some Light Structural members.



Hot Rolled Pickled HA3-P Ly-Ten Sheet.

Specification - Hot Rolled Sheet - AS/NZS1594 - 2002.

Hot rolled, formable steel sheet suitable when pickled for medium drawing and heavy pressing operations

Some Uses include: - Agricultural machinery

Automotive parts and components

Mower parts Brackets Furniture

Sheet	Available Widths.		kg per	Colour
Thickness	910	1210	m²	Coding
1.6		✓	12.56	Purple
2.0	✓	✓	15.7	Yellow
2.5		✓	19.63	Pink
3.0		✓	23.55	Blue
4.0		✓	31.4	Green
5.0		✓	39.25	Orange
6.0		✓	47 1	White



Cold Rolled CA3SN-G Sheet.

Specification - Cold Rolled Unalloyed Sheet - AS/NZS1595:1998.

Cold rolled, Skin-passed deep drawing steel guaranteed non-aging and free from stretcher strain with a general purpose surface.

Some Uses include:- Unexposed drawn parts for automotive and appliance end uses.

Sheet	Width	kg per	Colour
Thickness	1220	m²	Coding
0.6	✓	4.71	No Colour
0.8	✓	6.28	Black
1.0	✓	7.85	White
1.2	✓	9.42	Yellow
1.5	✓	11.78	Purple
1.6	✓	12.56	Purple
2.0	✓	15.70	Yellow
2.5	✓	19.63	Pink
3.0	✓	23.55	Blue

Customers often ask us about the differences between hot rolled steel and cold rolled steel.

Hot Rolled

Hot rolling is a mill process which involves rolling the steel at a high temperature (typically at a temperature over 1700° F), which is above the steel's recrystallization temperature. When steel is above the recrystallization temperature, it can be shaped and formed easily, and the steel can be made in much larger sizes. Hot rolled steel is typically cheaper than cold rolled steel due to the fact that it is often manufactured without any delays in the process, and therefore the reheating of the steel is not required (as it is with cold rolled). When the steel cools off it will shrink slightly thus giving less control on the size and shape of the finished product when compared to cold rolled. Uses: Hot rolled products like hot rolled steel bars are used in the welding and construction trades to make railroad tracks and I-beams, for example. Hot rolled steel is used in situations where precise shapes and tolerances are not required.

Cold rolled steel is essentially hot rolled steel that has had further processing. The steel is processed further in cold reduction mills, where the material is cooled (at room temperature) followed by annealing and/or tempers rolling. This process will produce steel with closer dimensional tolerances and a wider range of surface finishes. The term Cold Rolled is mistakenly used on all products, when actually the product name refers to the rolling of flat rolled sheet and coil products. All cold products provide a superior surface finish, and are superior in tolerance, concentricity, and straightness when compared to hot rolled. Uses: Any project where tolerances, surface condition, concentricity, and straightness are the major factors





Agricultural STEEI



GAL VABOND® steel Sheet.



GALVABOND® steel Sheet - AS 1397: 2011

Also meets AS/NZS 1365	: 1996 (Tolerances for flat	Thickness		Ava	ilable Wid	lths.		kg/	Colour
rolled steel products).		mm	915	1200	1220	1500	1525	m²	Coding
		0.40	✓		✓			3.43	
AS 1397: 2011 covers contigu	AS 1397: 2011 covers contiguous hot-dip metallic coated		✓					3.82	'n
steel sheet and strip - Coating	steel sheet and strip - Coatings of zinc and zinc alloyed with				✓			4.22	No Colour
aluminium and magnesium.		0.55	✓	✓	✓	✓		4.61	2
		0.60					✓	5.00	
Galvabond G2 steel is a hot-d	lipped zinc-coated commercial	0.70			✓			5.79	
forming steel with a spangled	surface, suitable for general	0.75	✓	✓	✓			6.18	
manufacturing. Product is suitable for moderate drawing		0.80					✓	6.57	Black
applications and is suitable for lock seaming up		0.90	✓		✓			7.36	
to 1.6mm thick.		0.95		✓	✓	✓		7.75	
Typic	al lock seam finish.	1.00			✓		✓	8.14	White
		1.10	✓		✓			8.92	
		1.15	✓	✓	✓	✓		9.32	1
		1.20					✓	9.71	Yellow
		1.50	✓		✓	✓		12.07	
		1.55		✓	✓	✓		12.46	
Typical Uses include:-		1.60					✓	12.85	Purple
Tube	Partitioning systems	1.90			✓			15.21	
Air-conditioning ducts	Cable trays	1.95		✓	✓			15.59	Orange
Air-conditioning panels	Scaffolding planks	2.40			✓			19.13	
Meter boxes	Rendering mesh	2.45		✓				19.52	Pink
Trailers	Feeder troughs	2.90			✓			23.06	Blue

Not all colour codes may be available for alternate thicknesses.

ZINCANNEAL® sheet.



Zincanneal Sheet G2S ZF100 AS 1397: 2011

Also meets AS/NZS 1365:	1996 (Tolerances for flat	Thickness		Availabl	e Widths.		kg/	Colour
rolled steel products).		mm	915	1050	1200	1220	m²	Coding
		0.50				✓	4.06	No Colour
AS 1397: 2011 covers contiguo	ous hot-dip metallic coated	0.55				✓	4.45	No Colour
steel sheet and strip - Coatings	of zinc and zinc alloyed with	0.70				✓	5.63	
aluminium and magnesium.		0.75				✓	6.02	
		0.80			✓		6.41	Black
Zincanneal G2S is a matte hot-dipped zinc/iron alloy-coated		0.90	✓			✓	7.19	
commercial forming steel with a skin-passed smooth surface		0.95			✓	✓	7.59	1
suitable for direct-on painting.		1.00			✓		7.98	White
Some powdering of the coating	may occur with severe	1.10		✓	✓	✓	8.77	1
deformation.		1.15			✓	✓	9.16	
		1.20			✓		9.55	Yellow
Typical Uses include:-		1.40				✓	11.12	
Exposed painted panels	Acoustic ceiling tiles	1.50	✓		✓	✓	11.91	
Non-exposed automotive	Commercial fridges and	1.55			✓		12.29	
panels	freezers	1.60			✓		12.69	Purple
Washing machines	Door frames	1.90				✓	15.05	
Switchboards		1.95			✓		15.44	Orange

While all details are correct at time of printings, details are subject to change without prior notice.

Rural Steel Supplies

Cec & Ben have 70 years experience in supplying steel to the rural market

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Aluminium Sheet, Plate & Treadplates.

Aluminium Sheets, Plate and Treadplates - Gr 5005 ,5052 ,5083 and 5005 0 (5Bar).

	Size	t	Mass/sh	Mass/sh	Mass/sh	Mass/sh
Grades and Uses.	mm x mm	mm	5005 H34	5052 H32	5083 H321	Treadplates
Grade 5005 H34 Sheet	1200 x 2400	0.60	4.683	n/a	n/a	n/a
A general purpose alloy, suitable for	1200 x 2400	0.80	6.244	n/a	n/a	n/a
a range of sheet metal applications.	1200 x 2400	1.00	7.805	n/a	n/a	n/a
Corrosion resistance - Excellent	1200 x 3600	1.00	12.001	n/a	n/a	n/a
Anodising - Very Good	1200 x 2400	1.20	9.366	9,599	n/a	n/a
Forming - Excellent	1200 x 3000	1.20	12.000	n/a	n/a	n/a
Machining - Poor	900 x 1800	1,60	7.199	n/a	n/a	n/a
Welding (Argon) - Excellent	1200 x 2400	1.60	12.488	12.488	n/a	13.577
A typical size range is listed.	1200 x 3000	1.60	15.610	n/a	n/a	n/a
Grade 5052 H32 Sheet	1200 x 3600	1.60	18.732	n/a	n/a	n/a
Used in marine applications, sheet	1200 x 2400	2.00	15.610	15.61	n/a	17.122
metal work and appliances.	1200 x 3000	2.00	19.512	n/a	n/a	n/a
Corrosion resistance - Excellent	1200 x 3600	2.00	24.000	n/a	n/a	n/a
Forming - Good	1500 x 3600	2.00	30.002	n/a	n/a	n/a
Welding (Argon) - Excellent	1200 x 2400	2.50	19.512	19.512	n/a	21.845
Grade 5083 H321 Plate	1200 x 2100	2.50	n/a	50.004	n/a	n/a
Used in high strength structural	1500 x 2400	2.50	n/a	24.39	n/a	n/a
applications, sheet and plate for	900 x 1800	3.00	13.499	n/a	n/a	n/a
welded marine applications and	1200 x 2400	3.00	23.414	23.414	23.99904	25.978
road transport vehicles.	1200 x 2400	3.00	30.000	n/a	n/a	n/a
Corrosion resistance - Excellent	1200 x 3600	3.00	35.122	n/a	n/a	38.963
Forming - Good	1200 x 5000 1200 x 6000	3.00	n/a	59.71	n/a	67.996
Welding (Argon) - Excellent	1200 x 6100	3.00	n/a	n/a	60.99756	n/a
Welding (Argon) - Excellent	1525 x 6100	3.00	n/a	n/a	77.521	n/a
	1200 x 2400	4.00	31,219	n/a	32.000	n/a
	1200 x 2400 1200 x 6100	4.00	n/a	n/a	81.3252	n/a
	1525 x 6100	4.00	n/a	n/a	103.3508	n/a
	2200 x 10000	4.00	n/a	n/a	244.42	n/a
	1200 x 10000	5.00	39.024	n/a	40.00032	40.738
	1200 x 2400 1200 x 6100	5.00	59.024 n/a	n/a	101.6675	
		5.00	n/a	n/a	129.2024	n/a n/a
Grade 5052 0 (5 Bar) Plate	1525 x 6100 1830 x 6100	5.00	n/a	n/a	155.0429	n/a
Aluminium Treadplates.	2200 x 10000	5.00			305.558	
A wide variety of diverse applications.	1200 x 10000	6.00	n/a 46.829	n/a n/a	48.0096	n/a 49.001
Step treads, shop floors, marine	1200 x 2400 1200 x 3600	6.00	n/a	n/a	n/a	73.505
foot traffic, decorative bar fronts.	1200 x 3600 1200 x 6000	6.00	n/a	n/a	n/a	101.840
Corrosion resistance - Excellent		6.00				
	1200 x 6100		n/a	n/a	122.0024	n/a
Workability - Good Welding (Argon) - Excellent	1525 x 6100	6.00 6.00	n/a	n/a	155.0448 186.0537	n/a
weiding (Argon) - Excellent	1830 x 6100		n/a	n/a		n/a
	2200 x 10000	6.00	n/a	n/a	366.674	n/a
	1200 x 2400	8.00	n/a	n/a	63.99936	n/a
从市场等的基本	1830 x 6100	8.00	n/a	n/a	248.0642	n/a
	1200 x 2400	10.00	n/a	n/a	80.00064	n/a
S. Albania	1200 x 6000	10.00	n/a	n/a	200.0	n/a
200 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	1200 x 2400	12.00	n/a	n/a	95.99904	n/a
	1200 x 2400	16.00	n/a	n/a	127.9987	n/a
//// 三//// 三//// 三////	1200 x 2400	20.00	n/a	n/a	160.0013	n/a
	1200 x 2400	25.00	n/a	n/a	199.9987	n/a





